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Product datasheet for MG208938

Dis3 (BC027357) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dis3 (BC027357) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dis3
Synonyms:	2810028N01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG208938 representing BC027357
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTCAGGTCCAAGACGTTCTTGAAGAAGACCCGCGCGGGCGGCGTGGTGAAGATCGTGCGCGAGCACT
ACCTGCGGGATGACATCGGCTGCGGCGCGCCGGCTTGCTCGGCCTGCGGCGGGGCGCACGCGGGCCCGGC
CCTGGAGCTGCAGCCCCGGGACCAGGCGAGCAGCCTCTGCCCGTGGCCGCACTACCTTCTGCCGGACACC
AATGTGCTGCTGCACCAGATTGATGTCCTCGAACACCCGGCCATCAAAAATGTCATTGTGCTACAAACAG
TGATGCAAGAAGTGAGAAACCGGAGCGCCCCCATCTACAAGCGAATCAGGGATGTGACCAATAACCAGGA
AAAGCATTTCTATACCTTCACTAATGAGCACCATAAAGAAACCTACATCGAGCAAGAGCAGGGAGAGAAT
GCCAATGACAGGAATGACAGAGCCATCCGAGTCGCAGCGAAGTGGTACAACGAGCACCTGAAGAGGGTGG
CAGCAGACAGTCAGCTGCAAGTTATCCTGATAACCAATGACAGGAAGAACAAAGAGAAAGCTGTGCAAGA
GGGGATACCAGCCTTCACGTGTGAAGAATACGTAAAGAGCCTGACTGCTAACCCTGAACTTATAGACCGT
CTTGCTTACTTGTCCGATGAAATGAATGAAATAGAAAGTGGGAAAATAATATTTTCAGAGCATCTTCCCT
TAAGCAAGCTCCAACAAGGCATAAAATCTGGTTCCTATCTTCAAGGAACATTCAGAGCTAGCAGGGAAAA
TTATTTGGAGGCTACAGTATGGATTCATGGAGACAAAGAAGAGGAAAAAGAGATACTTATACAGGGAATT
AAGCATCTAAACAGAGCTGTGCATGAAGACATTGTGGCCGTGGAGCTACTGCCCAGGAGCCAGTGGGTGG
CACCGTCTTCCGTGGTTTTAGACGATGAAGGTCAAAATGAAGACGATGTGGAGAAAGATGAGGAGAGAGA
ACTCCTGCTTAAGACTGCTGTAAGTGAAAAAATGTTACGGCCTACAGGTCGAGTTGTGGGGATAATAAAA
AGGAACTGGAGACCGTATTGTGGCATGCTTTCCAAGTCTGATATTAAGGAGTCAAGAAGACATCTCTTTA
CACCCGCTGATAAGAGAATTCCACGAATTCGGATAGAAACCAGACAGGCTTCTGCGTTAGAAGGACGGAG
AATTATTGTCGCTATTGATGGTTGGCCTAGAAATTCTAGATATCCAAATGGACACTTTGTAAAGAATTTA
GGCGATGTTGGAGAGAAGGAGACAGAAACGGAAGTGTTGCTGCTCGAGCACGATGTTCCTCATCAGCCCT
TTTCCCAGGCTGTGCTTAGCTTCCTGCCCAGGATGCCCTGGAGCATTACTGAGGAGGACATGAAAAACCG
AGAAGACCTGAGACATCTGTGTGTTTGCAGTGTGGACCCTCCAGGGTGCACTGACATAGATGACGCTCTG
CATTGTAGAGAGCTCAGCAATGGAAACTTGGAGGTTGGTGTTCATATTGCGGATGTTAGCCATTTTATCA
GGCCAGGAAATGCGTTGGATCAAGAATCTGCAAGAAGAGGAACAACTGTTTATCTTTGTGAAAAGAGGAT
TGACATGGTTCCAGAGTTGCTCAGCTCCAACCTCTGTTCCTTAAGATCCAACGTTGACAGGCTTCTCTTA
CGTACGCGGAAGCACAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

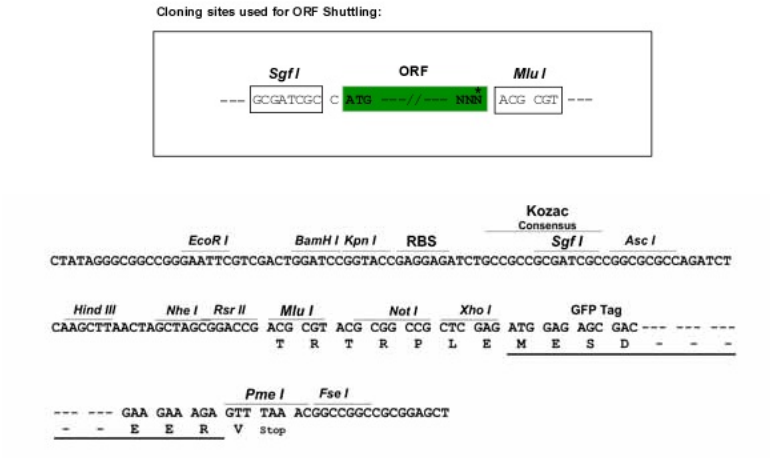
>MG208938 representing BC027357
Red=Cloning site Green=Tags(s)

MLRSKTFLKKTRAGGVVKIVREHYLRDDIGCGAPACSACGGAHAGPALELQPRDQASSLCPWPHYLLPDT
NVLLHQIDVLEHPAIKNVIVLQTVMQEVRNRSAPIYKRIRDVTNNQEKHFYTFTNEHHKETYIEQEQGEN
ANDRNDRAIRVAAKWYNEHLKRVAADSQLQVILITNDRKNKEKAVQEGIPAFTCEEYVKSLTANPELIDR
LAYLSDEMNEIESGKIIFSEHLPLSKLQQGIKSGSYLQGTFRASRENYLEATVWIHGDKEEEKEILIQGI
KHLNRAVHEDIVAVELLPRSQWVAPSSVVLDDEGQNEDDVEKDEERELLLKTAVSEKMLRPTGRVVGIIK
RNWRPYCGMLSKSDIKESRRHLFTPADKRIPRIRIETRQASALEGRRIIVAIDGWPRNSRYPNGHFVKNL
GDVGEKETETEVLLLEHDVPHQPFSQAVLSFLPRMPWSITEEDMKNREDLRHLCVCSVDPPGCTDIDDAL
HCRELSNGNLEVGVHIADVSHFIRPGNALDQESARRGTTVYLCEKRIDMVPELLSSNLCSLRSNVDRLLL
RTRKHR

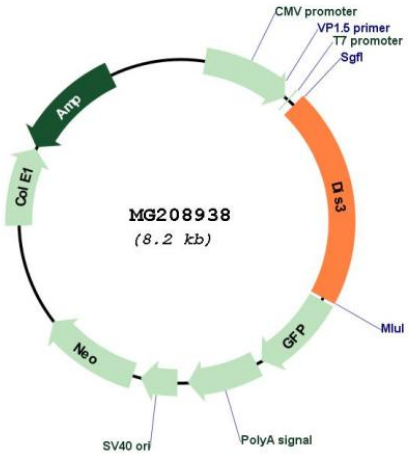
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC027357

ORF Size: 1700 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	BC027357, AAH27357
RefSeq Size:	2996 bp
RefSeq ORF:	1700 bp
Locus ID:	72662
Cytogenetics:	14 E2.2
Gene Summary:	Putative catalytic component of the RNA exosome complex which has 3'->5' exoribonuclease activity and participates in a multitude of cellular RNA processing and degradation events. In the nucleus, the RNA exosome complex is involved in proper maturation of stable RNA species such as rRNA, snRNA and snoRNA, in the elimination of RNA processing by-products and non-coding 'pervasive' transcripts, such as antisense RNA species and promoter-upstream transcripts (PROMPTs), and of mRNAs with processing defects, thereby limiting or excluding their export to the cytoplasm. The RNA exosome may be involved in Ig class switch recombination (CSR) and/or Ig variable region somatic hypermutation (SHM) by targeting AICDA deamination activity to transcribed dsDNA substrates. In the cytoplasm, the RNA exosome complex is involved in general mRNA turnover and specifically degrades inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated regions, and in RNA surveillance pathways, preventing translation of aberrant mRNAs. It seems to be involved in degradation of histone mRNA. DIS3 has both 3'-5' exonuclease and endonuclease activities.[UniProtKB/Swiss-Prot Function]